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1 Identification		
· Product identifier		
• Trade name: <u>Potassium Iodide</u> in MeOH/Water		
• Article number: MIL038		
• Details of the supplier of the safety data sheet • Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586	AQUA SOLUTIONS	
 Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666 		
2 Hazard(s) identification		
· Classification of the substance or mixture		
GHS02 Flame		
Flammable Liquids 3	H226 Flammable liquid and vapor.	
GHS08 Health hazard		
Specific Target Organ Toxicity - Single Exposure 2	H371 May cause damage to the central nervous system and the visual organs.	
Specific Target Organ Toxicity - Repeated Exposure 1	sure 1 H372 Causes damage to organs through prolonged or repeated exposure.	
GHS07		
Acute Toxicity - Oral 4	H302 Harmful if swallowed.	
 Label elements GHS label elements The product is classified and label Hazard pictograms 	led according to the Globally Harmonized System (GHS).	
GHS02 GHS07 GHS08		
· Signal word Danger		
• <i>Hazard-determining components of labeling:</i> <i>Methanol</i>		

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us system and the visual organs.
onged or repeated exposure.
es/hot surfaces No smoking.
quipment.
ng/lighting/equipment.
tatic discharge.
prs/spray.
die nur durch
this product.
ing/eye protection/face protection.
or if you feel unwell.
he all contaminated electrics. Diver aline with water al own
ly all contaminated clothing. Rinse skin with water/shower.
e center/doctor.
<i>J01.</i>
lance with local/mational/intermational modulations
ance with local/regional/national/international regulations.
readiants
listed below with nonhazardous additions.
51 0/2501
unwell. ter spray to extinguish. ool. lance with local/regional/national/international regulations. gredients listed below with nonhazardous additions. 51.065% 8.084%

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40.852%

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Immediately call a doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures	
Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.	
• Environmental precautions:	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
· Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Dispose contaminated material as waste according to section 13.	
Ensure adequate ventilation.	
· Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
· Protective Action Criteria for Chemicals	
· PAC-1:	
CAS: 7681-11-0 Potassium Iodide	$1.3 mg/m^{3}$
· · · ·	(Contd. on page 4)
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CAS: 67-56-1	Methanol	(Contd. of page 3) 530 ppm
· PAC-2:		
CAS: 7681-11-0	Potassium Iodide	15 mg/m ³
CAS: 67-56-1	Methanol	2,100 ppm
· PAC-3:		
CAS: 7681-11-0	Potassium Iodide	87 mg/m ³
CAS: 67-56-1	Methanol	7200* ppm

7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

Com	ponents with limit values that require monitoring at the workplace:
CAS	: 7681-11-0 Potassium Iodide
TLV	Long-term value: 0.01 ppm
	A4; Skin; *inhalation
CAS	: 67-56-1 Methanol
PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm
	Long-term value: 260 mg/m ³ , 200 ppm
	Skin
TLV	Short-term value: 250 ppm
	Long-term value: 200 ppm
	Skin; BEI
Ingr	edients with biological limit values:
CAS	: 67-56-1 Methanol
BEI	15 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift
	LD50: Methanol (background, nonspecific)
	(Contd. on page

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Trade name: Potassium Iodide in MeOH/Water

(Contd. of page 4) • Additional information: The lists that were valid during the creation were used as basis. · Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. · Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Yellow	
Odor:	Methanol	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	64 °C (147.2 °F)	
Flash point:	60 °C (140 °F)	

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		in MeOH/Water

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· Flammability (solid, gaseous):	Flammable.
· Auto igniting:	455 °C (851 °F)
• Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
• Danger of explosion:	Not determined.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
• Density at 20 °C (68 °F):	1.46873 g/cm ³ (12.25655 lbs/gal)
Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	e r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	8.1 %
Water:	40.9 %
VOC content:	8.08 %
	118.7 g/l / 0.99 lb/gal
Solids content:	51.1 %
Other information	No further relevant information available.

10 Stability and reactivity

• *Reactivity* No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicolo	gical inf	formation
• Informatio • Acute toxic		cological effects
· LD/LC50	values tha	t are relevant for classification:
ATE (Acu	te Toxicity	e Estimate)
Oral	LD50	1,237 mg/kg
Dermal	LD50	3,711 mg/kg
Inhalative	LC50/4h	37.1 mg/l
• Additional The produc Harmful • Carcinoge	n: No irrita No irrita on: No ser toxicolog ct shows th nic catego	ant effect. ting effect. isitizing effects known. ical information: he following dangers according to internally approved calculation methods for preparations: p ries
		Agency for Research on Cancer)
None of the	e ingredie	nts is listed.
· NTP (Nati	onal Toxi	cology Program)
None of the	e ingredie	nts is listed.
· OSHA-Ca	(Occupat	ional Safety & Health Administration)
Non of th		use in line d

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- \cdot Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.
- $\cdot \textit{Other adverse effects No further relevant information available}.$

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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· Uncleaned packagings:

• *Recommendation: Disposal must be made according to official regulations.*

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT, IMDG, IATA	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Methanol)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Methanol)
Transport hazard class(es)	
DOT	
P.AMAMBE LOJO	
Class	3 Flammable liquids
Label	3
IMDG, IATA	3 Flammable liquids
Label	3
Packing group DOT, IMDG, IATA	111
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	336
EMS Number:	<i>F-E,<u>S-E</u></i>
Stowage Category	A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	1L

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	(Contd. of pag
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOL), 3, III
Regulatory information	
Safety, health and environmental re No further relevant information avail Sara	gulations/legislation specific for the substance or mixture lable.
Section 355 (extremely hazardous su	ıbstances):
None of the ingredients is listed.	
Section 313 (Specific toxic chemical	listings):
CAS: 67-56-1 Methanol	
TSCA (Toxic Substances Control Ac	<i>zt</i>):
Potassium Iodide	ACTIV
Water	ACTIV
Methanol	ACTIV
Hazardous Air Pollutants	
CAS: 67-56-1 Methanol	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproduc	tive toxicity for females:
None of the ingredients is listed.	
Chemicals known to cause reproduc	tive toxicity for males:
None of the ingredients is listed.	
Chemicals known to cause developn	iental toxicity:
CAS: 67-56-1 Methanol	
Carcinogenic categories	
• EPA (Environmental Protection Age	ency)
None of the ingredients is listed.	••
TLV (Threshold Limit Value)	
None of the ingredients is listed.	
NIOSH-Ca (National Institute for O	occupational Safety and Health)
None of the ingredients is listed.	······································

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(Contd. of page 9) · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Methanol Potassium Iodide · Hazard statements Flammable liquid and vapor. Harmful if swallowed. May cause damage to the central nervous system and the visual organs. Causes damage to organs through prolonged or repeated exposure. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or concerned: Call a poison center/doctor. Get medical advice/attention if you feel unwell. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

· Contact:

Date of Preparation / Last Revision:

- Date of preparation / last revision Revision 1.2, 05/21/2024: Reviewed SDS for accuracy. MH/STN Creation date for SDS 09-25-2018. STN 05/21/2024
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association

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EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent D50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 3: Flammable liquids – Category 3 Acute Toxicity - Oral 4: Acute toxicity – Category 4 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 1 • * Data compared to the previous version altered.		(Contd. of page 10)
 CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit BEI: Biological Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 3: Flammable liquids – Category 3 Acute Toxicity - Oral 4: Acute toxicity – Category 4 Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (single exposure) – Category 1 	EINECS: European Inventory of Existing Commercial Chemical Substances	
 NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flammable Liquids 3: Flammable liquids – Category 3 Acute Toxicity - Oral 4: Acute toxicity – Category 4 Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1 	ELINCS: European List of Notified Chemical Substances	
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	Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2	
\cdot * Data compared to the previous version altered.	Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1	
	\cdot * Data compared to the previous version altered.	
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